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7. (Currently amended) A device comprising:  
a waveform shaper shaping a waveform of an input signal light to produce a shaped output signal light;  
a quality selection module that obtains a quality measurement of said output signal light from one of:  
a Q factor;  
a bit error rate;  
a spectrum shape; and  
an eye opening; and  
a power controller controlling the power of said input signal light so that said quality measurement is improved to an optimal level.

Sub 1

8. (Currently amended) A device according to claim 7, wherein said power controller comprises an optical amplifier amplifying said input signal light and a controller adjusting the gain of said optical amplifier so that said quality measurement is most improved to the optimal level.

9. (Currently amended) A device according to claim 7, wherein said power controller comprises an optical amplifier amplifying said input signal light, an optical attenuator attenuating an output from said optical amplifier, and a controller adjusting the attenuation of said optical attenuator so that said quality measurement is most improved to the optimal level.

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27. (New) A method as in claim 1, wherein said controlling comprises:  
controlling gain of an optical amplifier which amplifies the input signal light, to thereby control power of the input signal light.

Cont. Sub 1

28. (New) A method as in claim 17, wherein said controlling comprises:  
controlling gain of an optical amplifier which amplifies the input signal light, to thereby control power of the input signal light.

29. (New) A method as in claim 18, wherein said controlling comprises:  
controlling gain of an optical amplifier which amplifies the input signal light, to thereby